

ABSTRACT

A biosolids treatment system comprising a storage tank for containing a quantity of biosolids sludge, a system of disinfection piping within the storage tank comprised of a segment of inner biosolids piping having a plurality of holes spirally arranged at a desired spacing around its perimeter concentrically arranged with a segment of outer steam piping, delivery pumps for delivering a quantity of biosolids to the storage tank, biosolids pumps for delivering a flow of biosolids from the storage tank to the inner biosolids piping; and steam pumps for delivering a flow of steam to the outer steam piping and thereby injecting a flow of steam from the outer steam piping into the inner biosolids piping for thermally disinfecting the flow of biosolids in the inner biosolids piping. The system includes computerized controls for continuously and simultaneously monitoring and operating the biosolids and steam pump means. The system delivers disinfected biosolids for use in land farm disposal of biosolids and for use as an agricultural soil additive.